

Bylaws of the JETSCAPE Collaboration

1 Investigators and Collaborators

The JETSCAPE Collaboration is defined as the fourteen Principle Investigators (PIs) and co-investigators from nine institutions that submitted the JETSCAPE proposal. Each PI is responsible for the list of members from within his or her subfield and institution, and for disseminating collaboration information to those members. In addition, each PI is responsible for ensuring that work on the JETSCAPE framework, development and applications is consistent with the collaboration goals and bylaws.

New PIs may be admitted to the collaboration by receipt of a supplemental funding award and the consent of the council. Unfunded collaborators shall be admitted to the Collaboration by the Council upon recommendation by the Spokesperson.

(Q: Do we want to specify expectations for conduct and procedures for removal? Can always add later.)

2 Council

The Council comprises of the set of Principle Investigators. The Council shall elect a chair to convene and run Council meetings on a regular basis, and will serve as the representative of the Council. The Council Chair is elected for a period of 2-years.

All major decisions regarding membership, policies, changes to bylaws, and organization will be settled by a 5/7th majority vote of the entire council (i.e. 10 council members either present or online have to vote yes!).

The spokesperson will be nominated by a council member and elected in the council. The council will vote on the deputy spokesperson nominated by the spokesperson. Both of these appointments will require 5/7th majority vote of the entire council.

The council will also decide on nominations of speakers to major conferences. These decisions will be taken by a simple majority vote of council members attending a meeting to decide speakers.

3 Spokesperson

The spokesperson is elected by majority vote of the Council to serve a term of 2-years. The Spokesperson will be the representative of the Collaboration in scientific, technical, and organizational issues involving the design and construction of the software and the decision of physics topics that will be addressed.

The Spokesperson will work with both the Executive/Oversight committee. He/She will settle any disputes between working groups to ensure timely completion of all projects. Is responsible for the publication of scientific results and the dissemination of code to the

community in a timely and responsible fashion. The Spokesperson will be the main contact between the collaboration and the NSF.

The spokesperson will nominate a deputy-spokesperson to assist in performing the duties of the spokesperson. The nominee is subject to confirmation by the council and serves for a term equal to that of the spokesperson.

4 Executive Oversight Committee

The Executive Oversight (EXEC) Committee is comprised of the union of the Council and the JETSCAPE Working Group Conveners. The EXEC Committee will review and oversee the work of the various working groups and provide feedback to the conveners and guidance to the Spokesperson. The EXEC Committee will meet regularly to receive status reports from the working groups.

5 Working Groups

All working group conveners are appointed by the Spokesperson and confirmed by the Council. They will serve terms of 2-years, staggered by several months from the beginning of the Spokesperson's term.

5.1 The Computing and Software Design working group (COMP-WG)

The COMP-WG will:

- design the overarching framework and modify as needed,
- design the data structures required for current and future event generators,
- collaborate with the PHYS-WG to design the algorithms according to modeling requirements,
- collaborate with the PHYS-WG and STAT-WG on coding framework,
- maintain public and private code repositories, and set up regression routines and nightly rebuilds,
- continuously design new test cases to test modifications to the software.

5.2 The Physics Modeling working group (PHYS-WG)

The PHYS-WG will,

- work with the COMP-WG to design emulators,
- be tasked with solving outstanding modeling problems,
- continuously incorporate new physics routines within the framework designed by the COMP-WG,

- work closely with the COMP- AND STAT-WG to suggest required changes to the framework.
- decide on different observables to compare between the baseline event generator and data.
- work both with the STAT-WG and the external community to improve physics models

5.3 The Data Comparison and Statistics working group (STAT-WG)

The STAT-WG will,

- work with the PHYS- and COMP-WG to define multiple formats to compare with experimental data,
- set up emulation routines for extensive data sets, and work with the COMP-WG to design generic emulation routines,
- design new observables, in collaboration with the PHYS-WG,
- design comprehensive statistical tests to distinguish between different physics model assumptions,
- work with experimental representatives and the DOCS-WG group to obtain data for comparison

5.4 The Documentation, Website, Allocation and Dissemination (DOCS-WG)

The PUBS-WG will,

- continuously update the website of the collaboration with new information regarding the use of the developed software,
- write the manual of the full software product
- aid in the design of course material to be used in a future MOOC.
- work with the STAT-WG to ascertain required computational resources and write proposals to large scale computational facilities,
- work extensively with the large experimental collaborations to transfer the final software product to the experiments and other theorists,
- work to support the community wide adoption of the developed product.

6 Adoptions and Revisions